

LIVSHITS, V.S., inzh.

Simplified methods for determining an effective number of electric
power receivers. Prom. energ. 19 no.3:33-35 Mr '64.

(MIRA 17:4)

MEL'NIKOV, N.N.; MANDEL'BAUM, Ya.A.; LOMAKINA, V.I.; LIVSHITS, V.S.

Organic insecticide-fungicides. Zhur.ob.khim. 31 no.12:3949-
3953 D '61. (MIRA 15:2)

1. Nauchnyy institut po udobreniyam i insektofungitsidam
im. Ya.V. Samoylova (NIUIF), Moskva.

(Insecticides)

(Acetic acid)

(Phosphorus organic compounds)

1. KRYLOV, O. V.

2. LIVSHITS, V. S.

AUTHOR: Krylov, O. V.; Livshits, V. S.

TITLE: Heterogeneous catalysts for the polymerization of propylene oxide

SOURCE: Neftekhimiya, v. 5, no. 1, 1965, 40-43

TOPIC TAGS: polymerization catalyst, heterogeneous catalyst, propylene oxide polymerization, oxide catalyst, oxalate catalyst, isotactic polymer

ABSTRACT: The activity of magnesium, aluminum and ferric oxides and cerium, cobalt and magnesium oxalates in polymerization of propylene oxide was studied experimentally and the reaction kinetics were investigated. The best results were obtained with cerium oxalate. Propylene oxide was polymerized on oxalate catalysts at 20-120°C in the absence of air and in toluene solution or without solvents. The degree of polymerization was high (up to 10,000) and the polymers were isotactic. The polymer structure was studied by x-ray diffraction. The molecular weight of the polymer (55,000) was high. The results show that heterogeneous catalysts can be used for the polymerization of propylene oxide. The activity of oxalate catalysts was less dependent on the amount of catalyst used than

L 34003-65

ACCESSION NR: AP5006074

on the activity of the oxides. X-ray analysis of crystalline fractions gave values corresponding to those reported for isotactic polypropylene oxide. The average integral polymerization rates, in $m\text{-mole/hr.m}^2$, were shown to be similar for oxalates to those of the most efficient propylene oxide catalysts (Polymer Chemistry, 34, 1959, 153), whereas the rates of the catalytic metal oxides studied were lower by 1-2 orders of magnitude than the rates measured with oxalate catalysts in propylene oxide polymerization. The different activation enthalpies of the oxalates and metal oxides in the polymerization of propylene oxide with increasing degree of polymerization of the active centers (Neftekhimiya v. 2, no. 1, 1967, 1968) was also confirmed by the calculated number of active centers for the oxalate catalysts (Fig. 4, 5, 6, 7, table and 2 formulas).

ASSOCIATION: Institut khimicheskoy fiziki, AN SSSR (Chemical physics institute, AN SSSR)

SUBMITTED: 18Feb64

ENCL 00

SUB CODE 00

REF SOV: 002

OTHER 002

LIVSHITS, Viliyam Semenovich, inst.

Determination of an effective number of power receivers with
single phase loads. 17v. vyc. usheb. zav.; elektromagn. 7
no.8:1017-1018 1961. (MIRA 17:10)

1. Fuzovoditel' brigady otbela energetiki i avtomatiki
Belpromproyektu.

LIVSHITS, V. S.

"Extracardial Control of a Pathologically Degenerated Heart,"

Arkhiv. Patol., 10, No. 3, 1948; (Moscow Lab of Comparative

Path, Inst of Gen and Experimental Path, Acad Med Sci

USSR) -c1948.-

1A 12/1979

USSR/Medicine - Tetanus Toxin
Medicine - Tetanus, Complications and
Sequels May 49

"Mechanism of Incubation in Tetanus," S. I.
Franshteyn, V. S. Livshits, Insc of Gen and
Experimental Path Acad Med Sci USSR, 24 pp
"Dok Ak Nauk SSSR" Vol LXVI, No 3

Experimental injection of tetanus toxin into
mice and rabbits produced a reaction in the
nervous system and resulted in tetanus. Patho-
logical reaction arises only after an incubation
period followed by an incapacitation of the

USSR/Medicine - Tetanus toxin (toxin) 58/4979

sympathetic nervous mechanisms. Submitted by Acad
A. P. Speransky, 24 Mar 49.

52/4979

LIVSHITS, V. S.

"Analysis of Disturbance in Parasympathetic Regulation on the Heart in
Experimental Diphtheria Intoxication " p. 123

"The Role of the Higher Branches of the Central Nervous System in the
Compensation of Disturbed Functions of the Heart in Experimental Embolism of the
Coronary Artery." p. 188

Problema Reaktivnosti v Patologii, Medgiz, Moscow 1954, 344p.

LIVSHITS, V.S.; SOLOV'YEV. A.A.

Physiology and pathology of the cardiovascular system. Vest.
AMN SSSR, no.2:71-78 '55. (MLRA 8:8)

1. Chlen-korrespondent AMN SSSR (for Solov'yev)
(CARDIOVASCULAR DISEASES,
conf.)
(CARDIOVASCULAR SYSTEM, physiology,
conf.)

LIVSHITS, V.S.

LIVSHITS, V.S.

Mechanism of disorders of cardiac function following decerebration.
Biul.eksp.biol. i med. 42 no.12:25-29 D '56. (MIRA 10:2)

1. Iz laboratorii eksperimental'noy patologii (zav. - prof. S.I. Lebedinskaya) otdela obshchey patologii (zav. - A.D.Speranskiy) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'-nyy chlen AMN SSSR prof. V.N.Chernigovski)

(BRAIN, physiology,

eff. of decerebration on blood pressure & ECG (Rus))

(BLOOD PRESSURE, physiology,

eff. of decerebration (Rus))

(ELECTROCARDIOGRAPHY,

eff. of decerebration (Rus))

~~SECRET~~

effect of focal affections of various segments of the brain on the
cardiovascular system. Vop.neirokhir. 21 no.4:26-34 Je-Ag '57.
(MIRA 10:10)

1. Laboratoriya sravnitel'noy patologii Instituta obshchey i eksperi-
mental'noy patologii AMN SSSR i laboratorii eksperimental'noy
patologii Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.
(CARDIOVASCULAR SYSTEM, physiology,

eff. of exper. brain lesions (rus))

(BRAIN, physiology,

eff. of focal lesions on cardiovasc. system in animals
(rus))

LIVSHITS, V.S. - LEBEDEVA, L.N.

Reflex modifications of the intracardiac nerve apparatus in experimental focal myocarditis. Biul. eksp. biol. i med. 43 no.1 supplement:32-36 '57. (MLRA 10:3)

1. Iz laboratorii sravnitel'noy patologii (zav. - prof. S.I. Franshteyn) Instituta obshchey i eksperimental'noy patologii (dir. - akad. A.D.Speranskiy) i laboratorii patomorfologii (zav. - chlen-korrespondent AMN SSSR prof. A.A.Solov'yev) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N.Chernigovskiy) Predstavlena deystvitel'nym chlenom AMN SSSR professorom V.N.Chernigovskim.

(MYOCARDITIS, exper.

focal, correlation of pathol. nerve changes with reflexes in dogs)

(REFLEX

correlation of cardiac reflexes with nerve changes in exper. focal myocarditis in dogs)

KRYLOV, O.V.; LIVSHITS, V.S.

Heterogeneous catalysts for the polymerization of propylene
oxide. Neftekhimiya 5 no.1:40-43 Ja-P '65. (MIRA 18:5)

1. Institut khimicheskoy fiziki AN SSSR.

LIVSHITS, V.S.; KRYLOV, O.V.; KLABUNOVSKIY, Ye.I.

Heterogeneous catalytic polymerization of the optical isomers of propylene oxide. Dokl. AN SSSR 161 no.3:633-636 Mr '65. (MIRA 18:4)

1. Institut khimicheskoy fiziki AN SSSR. Submitted September 5, 1964.

L 55969-65

ACCESSION NR: AP5014494

of deposition time is shown graphically. Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: SS

NO REF SOV: 001

OTHER: 000

File
Card 2/2

L 24910-65 ENT(1)/ENG(k)/EEC(k)-2/T/EEC(b)-2/EMA(h) PM-L/Pz-6/Peb IJP(c)

ACCESSION NR: AP4045483

S/0109/64/009/009/1616/1621

AUTHOR: Livshits, V. V.

TITLE: Theoretical limit of broadband matching of impedance of the rectifying contact in SHF semiconductor diodes *25*

SOURCE: Radiotekhnika i elektronika, v. 9, no. 9, 1964, 1616-1621

TOPIC TAGS: SHF diode, semiconductor diode

ABSTRACT: The rectifying contact is regarded as a concentrated impedance consisting of barrier-layer resistance R and capacitance C in parallel connected in series with the spreading resistance r . The parameters R and C are assumed constant, and matching with a dispersionless line (coaxial or strip, but no waveguide) is considered. The problem of matching was solved in general terms by R. M. Fano (J. Franklin Inst., 1950, 249, 1, 57; 249, 2, 139). His solution is used for developing a formula (16) that describes the theoretical limit of broad-

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L 24910-65

ACCESSION NR: AP4045483

band matching. The formula is based on the assumption of a maximum standing-wave ratio. However, for radiometric (radar) work, a different criterion, viz., an average power-reflection factor for the specified frequency band, is more suitable; corresponding formulas are derived. Orig. art. has: 2 figures and 21 formulas.

ASSOCIATION: none

SUBMITTED: 19Apr63

ENCL: 00

SUB CODE: EC

NO REF SOV: 003

OTHER: 005

Card 2/2

USSR/Physics - Electron-optical study of emission

FD-2408

Card 1/1 Pub. 153-12/21

Author : Prilezhayeva, I. N.; Livshits, V. V.; and Spivak, G. V.

Title : Electron-optical study of nonstationary emission of oxide cathode in a vacuum and in a gas

Periodical : Zhur. tekhn. fiz. 25, 97-107, Jan 1955

Abstract : The task of the authors in the present work is the electron-optical and oscillographic study in the case of pulse supply of the emission of the oxide cathode in a vacuum and in a gas. They employed an arrangement of immersion objective which would ensure during considerable emission obtaining of a qualitative image of the cathode; they observed pictures of the emission disrupted at large loads by processes of distrotion, poisoning of the cathode, and its subsequent establishment. They thank R. A. Lukatskaya. Fifteen references: e.g. T. N. Dombrovskaya, Ye. M. Dubinina, G. V. Spivak, Vestnik MGU (Herald of Moscow State University), No 10, 1954, and No 2, 1953; L. N. Zingerman, Trudy Instituta fiz. AN USSR (Works of the Institute of Physics, Acad. Sci. Ukrainian SSR), No 2, 1952.

Institution: --

Submitted : June 15, 1954

LIVSHITS, V.V.; RABINOVICH-VIZEL', A.A.

Frequency multipliers using the nonlinear capacitance of diodes with sharp p-n junctions. Radiotekh. i elektron. 8 no.12:2055-2065
D '63. (MIRA 16:12)

KUTOVSKIY, Mikhail Yakovlevich, inzh.; LIVSHITS, Vladimir
Yakovlevich, inzh.; LEPIN, V.N., red.; TELYASHOV, R.Kh.,
red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Recovery of organic solvents in dyeing with nitrocellulose
enamel dyes] Rekuperatsiya organicheskikh rastvoritelei pri
okraske nitroemaliami, stenogramma lektsii. Leningrad, 1962.
35 p. (MIRA 16:11)
(Dyes and dyeing--Leather) (Solvents)

LIVSHITS, V.V.

Invariant properties of the conversion of the plane of a complex radiation coefficient with transformation through a reactive four-terminal network. Radiotekhn. i elektron. 9 no.9:1621-1625 1964. (MIRA 17:10)

Theoretical limits of wide-band impedance match of the reflecting network of microwave semiconductor diodes at microwave frequencies. Ibid.: 1616-1621

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[illegible]

LIVSHITS, V.Ya., inzh.

New fireproofing composition for wooden roof elements. *Biul. tekhn.*
inform. 4 no. 4:16-18 Ap 58. (MIRA 11:5)
(Roofs) (Fireproofing of wood)

LIVSHITS, V., inzh.-khimik

Cheap fireproof coatings. Izobr.i rats. no.7:10 J1 '58.
(Fireproofing of wood) (MIRA 11:9)

LIVSHITS, V.Ya.

New binder for preservative compounds. Gidroliz. i lesokhim. prom.
11 no.3:11 '58. (MIRA 11:5)
(Binding materials) (Wood preservatives)

LIVSHITS, V.Ya., inzh.

Using pyrite and chalcopyrite cinders in making compounds for
fireproofing wooden roof elements. Nov.tekh.monit.1 spets. v
stroit. 21 no.7:25-26 J1 '59. (MIRA 12:10)
(Fireproofing of wood) (Pyrites)

STABNIKOV, Vasilii Nikolayevich, doktor tekhn.nauk; LIVSHITS, Vladimir Yakovlevich, inzh.-khimik; KARPOV, V.V., kand.tekhn.nauk, nauchnyy red.; KAPLAN, M.Ya., red.izd-va; PUL'KINA, Ye.A., tekhn.red.

[Antisepticizing wood in construction] Antiseptirovanie drevesiny na stroitel'stve. Leningrad, Gos.izd-vo lit-ry po stroit., arkhitekt. i stroit.materialam, 1960. 102 p. (MIRA 13:4)
(Wood--Preservation)

LIVCHIL, YA. D.

Technology

Construction mechanics of the airplane, Moskva, MAP OBORONCIZ, glavna redaktsi
aviatsionnoi literatury, 1946.

Monthly List of Russian Accessions, Library of Congress, Oct. 1952. Unclassified

PEN'KOV, A.M., prof.; KAN, S.N., doktor tekhn.nauk, prof., inzhener-polkovnik;
LIVSHITS, Ya.D., doktor tekhn.nauk, prof.

"Structural mechanics for airplanes" by A.A.Umanskii. Reviewed
by A.M.Pen'kov, S.N.Kan, IA.D.Livshits. Izv.vys.ucheb.zav.;
av.tekh. 5 no.3:187-189 '62. (MIRA 15:9)

1. Chlen-korrespondent AN UkrSSR (for Pen'kov).
(Airplanes--Design and construction)
(Umanskii, A.A.)

KRAMARENKO, O.Yu.; LIVSHITS, Ye.D.; SUKHOMEL, Ye.G.

Investigating stresses in frames of tractor-drawn seeders. Mach.
trudy Inst. mash. i sel'khoz. mekh, AN URSS 3:95-120 '61.
(Drill (Agricultural implement)) (MLRA 10:9)

LIVSHITS, Yakov Davydovich

(Kiev Motor Highway Inst) - Academic degree of Doctor of Technical Sciences, based on his defense, 14 June 1955, in the Council of the Inst of Structural Mechanics of the Acad Sci USSR, of his dissertation entitled: "Curvature of Flexible Plates."

Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 27, 24 Dec 55, Bulletin' 1970 SSSR
Uncl. JPRS/NY 542

LIVSHITS, Ya.D.

Bending of elastic plates supported by rigid contours. Prykl.
mekh. 2 no.1:51-66 '56. (MLRA 10:2)

1. Kiivs'kiy avtomobil'no-shlyakhoviy institut.
(Elastic plates and shells) (Strains and stresses)

LIVSHITS', Ya.D.

Conference on the theory applied to the calculation and design of
reinforced concrete structures. Prikl.mekh. 2 no.3:351-352 '56.
(Reinforced concrete) (MIRA 9:10)

LIYSHITS', Ya.D. (Kiy)

Graphs for calculating square elastic plates charged with uniformly distributed load. Prikl.mekh. 2 no.4:464-467 '56. (MLRA 10:3)

1. Kiy's'kiy avtomobil'no-shlyakhoviy institut.
(Elastic plates and shells)

LIVSHITS, Ya.D. doktor tekhn. nauk.

~~Design of some bridge systems. Trudy Kiev. avt.-dor. inst. no.3:65-~~
73 '57. (MIRA 11:5)

(Bridge construction)

LIVSHITS, Ya.D. [Livshyts' IA.D.] (Kiev)

Calculating flexible plates subjected to transverse loads
and forces acting in the plane of the plate [in Ukrainian
with summaries in Russian and English]. Prykl. mekh. 3 no.4:
387-399 '57. (MIRA 11:2)

1. Kiivs'kiy avtoshlyakhoviy institut.
(Elastic plates and shells)

VERIZHENKO, Yevgeniy Petrovich [Veryzhenko, I.E.P.], dotsent, kand.tekhn.
nauk; LIVSHITS, Yakov Davidovich [Livshyts', I.A.D.], prof.,
doktor tekhn.nauk; NAZARENKO, N., red.; NEMCHENKO, I. [Niemchenko,
I.], tekhn.red.

[Statics of structures] Statyka sporud. Vyd.2., perer. Kyiv,
Derzh.vyd-vo lit-ry z budivnytstva i arkhitektury, 1959. 330 p.
(MIRA 13:5)

(Structures, Theory of)

LIVSHITS, Ya.D. [Livshyts', IA.D.]

"Theoretical and experimental investigation of some problems in bending and stretching of plates having stiffening ribs" by S.A.Grach. Reviewed by IA.D.Livshyts'. Prikl.mekh. 6 no.1: 114-115 '60. (MIRA 13:6)
(Elastic plates and shells)
(Grach, S.A.)

24556

S/198/61/007/001/003/008
D205/D305

10.7000 also 3108

AUTHOR: Lifshyts', Ya.D. (Kyyiv)

TITLE: The bending of flexible rectangular plates supported
by an elastic contour

PERIODICAL: Prykladna mekhanika, v. 7, no. 1, 1961, 43 - 51

TEXT: The problem of bending flexible rectangular plates, supported by an elastic contour has no exact or rapid solution, although examples occur extremely frequently in engineering practice. This article gives a solution of the problem by the method of finite differences combined with the iteration process. The use of digital computers with this method is claimed by the author to give extremely accurate results. The basic differential equations are quoted from S.P. Timoshenko (Ref. 1: Plastinki i obolochki (Surfaces and Shells) OGIZ, 1948). In finite differences for the inter-sections k of a network (Fig. 1) they have the form

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The bending of flexible ...

$$20\bar{w}_h - 8(\bar{w}_s + \bar{w}_b + \bar{w}_e + \bar{w}_d) + 2(\bar{w}_i + \bar{w}_j + \bar{w}_g + \bar{w}_h) + \bar{w}_l + \bar{w}_i + \\ + \bar{w}_m + \bar{w}_n - \frac{10^4}{n^4} - R \left[(2\bar{F}_s - \bar{F}_b - \bar{F}_d) (\bar{w}_s - 2\bar{w}_h + \bar{w}_d) + \right. \\ \left. + (2\bar{F}_i - \bar{F}_g - \bar{F}_j) (\bar{w}_i - 2\bar{w}_h + \bar{w}_j) + 0.125 (\bar{F}_s - \bar{F}_i + \right. \\ \left. + \bar{F}_g - \bar{F}_h) (\bar{w}_s - \bar{w}_j + \bar{w}_g - \bar{w}_h) \right]; \quad (3)$$

$$20\bar{F}_s - 8(\bar{F}_s + \bar{F}_b + \bar{F}_e + \bar{F}_d) + 2(\bar{F}_s + \bar{F}_i + \bar{F}_g + \bar{F}_h) + \bar{F}_l + \bar{F}_i + \bar{F}_m + \\ + \bar{F}_n - \left(\frac{\bar{w}_i - \bar{w}_g + \bar{w}_h - \bar{w}_d}{4} \right)^2 - (\bar{w}_s - 2\bar{w}_h + \bar{w}_d) (\bar{w}_s - 2\bar{w}_h + \bar{w}_d). \quad (4)$$

Here, n is the coefficient of density of the net, $\bar{w}$, $\bar{F}$, R are given by

$$\bar{w} = w \cdot 10^4 \frac{D}{\rho a^4}; \quad \bar{F} = F \cdot 10^8 \frac{D^3}{E \rho^4 a^4}; \quad R = 10^{-4} \cdot 1728.0 (1 - \mu^2)^3 S^3.$$

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where $S = \frac{p}{E} \left(\frac{2a}{h}\right)^4$. [Abstractor's note: Symbols w , F , ϕ , a , h , D , E , μ are not here explained. They are taken from Timoshenko (Ref. 1: Op.cit.)]. The contoured equations for the edge parallel to the x -axis are given and are reduced by elimination and substitution, to the definitive form

$$m_k w_k + m_b w_b + m_c w_c + m_d w_d + m_{gh}(w_g + w_h) + m_i w_i + m_m w_m + \\ + m_n w_n + m_{p,r}(w_p + w_r) + m_o w_o + m_x w_x = 0. \quad (13)$$

where the coefficients m are given by

$$m_b = \frac{2-\mu}{n} k_k \left(1 + \frac{k_l}{k_k}\right) + \left(\frac{3}{n} - 2 \frac{2-\mu}{n}\right) k_{bd} + 4 \frac{B_x n}{Da}; \\ m_c = \left(\frac{3}{n} - 2 \frac{2-\mu}{n}\right) k_c + 6; m_{gh} = \frac{2-\mu}{n} k_c; \\ m_d = \frac{2-\mu}{n} k_k \left(1 + \frac{k_n}{k_k}\right) + \left(\frac{3}{n} - 2 \frac{2-\mu}{n}\right) k_{bd} + 4 \frac{B_x n}{Da};$$

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$$m_k = 2 \frac{2-\mu}{n} (k_{k-1} - k_k) + \frac{3}{n} k_k - 6 \frac{B_x n}{Da} - 4.5;$$

$$m_l = \frac{2-\mu}{n} (k_{k-1} - 2k_l) + \frac{3}{n} k_l - \frac{B_x n}{Da};$$

$$m_m = \left(\frac{3}{n} - 2 \frac{2-\mu}{n} \right) k_m - 1.5;$$

$$m_n = \frac{2-\mu}{n} (k_{k-1} - 2k_n) + \frac{3}{n} k_n - \frac{B_x n}{Da};$$

$$m_{p_1} = \frac{2-\mu}{n} k_m; \quad m_q = \frac{2-\mu}{n} k_l; \quad m_s = \frac{2-\mu}{n} k_n.$$

This equation holds for a point at an arbitrary distance (beginning with the third) from the angular point on the edge parallel to the x-axis. If k is the second point from the angular point, then

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the value of w at the angular point l and at q , the first point beyond the contour must be considered. If k is the next point to the angular point, then the value of w at the angular point b and at l and q beyond the contour must be considered. The contoured equation for the plane problem, the displacement u of a point on the edge in a direction parallel to the edge is observed to be zero; the displacement v of such a point, perpendicular to the edge is found from the bending of the rib under the action of the load, $q = h \frac{d^2 F}{dx^2}$ (on the edge parallel to the x -axis). The equation of the bent axis of the rib is

$$B'_x \frac{\partial^4 v}{\partial x^4} = h \frac{\partial^2 F}{\partial x^2}. \quad (18)$$

where B'_x is the bending rigidity of the rib, parallel to the x -axis, in the horizontal plane. The dependence between the stress

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function F and the displacement v , for an arbitrary point k on the edge of the contour parallel to the x -axis is, in finite difference form

$$2\bar{v}_k - \bar{v}_b - \bar{v}_d = 2(3 + \mu)(\bar{F}_a - \bar{F}_c) + \bar{F}_m - \bar{F}_l + (2 + \mu)(\bar{F}_e + \bar{F}_h - \bar{F}_f - \bar{F}_j) = 0. \quad (20)$$

Here $\bar{v} = v \cdot 10^8 D^2 \frac{n}{2p^2 9}$. To sum and solve (20) for all points of the contour and to ensure that $v = 0$ at the angular point, v is expressed in terms of F for all points of the contour, and for a and b , the first points beyond the angular point. Eq. (18) becomes, in finite differences,

$$\frac{2B'_x n}{Eha} (6\bar{v}_a - 4\bar{v}_b - 4\bar{v}_d + \bar{v}_l + \bar{v}_n) = \bar{F}_b - 2\bar{F}_a + \bar{F}_d. \quad (26)$$

and, in the case of the angular point,

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$$\frac{2B_x n}{Eha} (\bar{v}_b + 6\bar{v}_d - 4\bar{v}_n + \bar{v}_x) = 0. \quad (27)$$

Eq. (26) is written once for every point on the contour excluding the angular point, and (27) is written twice - once for the angular point considered relative to the edge parallel to the x-axis, and one for the edge parallel to the y-axis. The unknowns in these equations are $\bar{F}$ for the second points beyond the contour (points i). The number of these points is the number on the contour plus four (since for each angular point there are two second points beyond the contour). For evaluating third order derivatives (which arise in the course of working) the value of $\bar{F}$ for the diagonal point beyond the contour, f , is needed. So, for the angular point also, the basic equation (4) may be used. The system of equations in terms of $\bar{F}$ is solved using factors of influence, whose matrix is β_{ik} . For the first approximation to $\bar{w}$, the right-hand side of the transformed Eqs. (4) which depend only on $\bar{w}$, is evaluated.

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With the aid of β_{1k} , the first approximation to F is then evaluated. Using these first approximations, the right-hand side of the transformed equations (3) is evaluated, and hence, with the aid of α_{1k} , the second approximation to $\bar{w}$ is obtained, and hence, with the aid of β_{1k} , the second approximation to $\bar{F}$, and so on, until the difference between two successive approximations becomes increasingly small. The speed of obtaining successive approximations can be increased by the use of the iteration method. There are 2 tables, 6 figures and 4 Soviet-bloc references.

ASSOCIATION: Kyivskyy avtodorozhnyi instytut (Kiyev Institute of Highway Engineering)

SUBMITTED: July 4, 1959

Card 8/9

LIVSHITS, Yakov Davidovich, prof.; SEMENOV, Pavel Ivanovich, dots.;
AZARNINA, N.I., red.; LEUSHCHENKO, N.L., tekhn. red.

[Exercises in structural mechanics] Sbornik uprazhnenii po
stroitel'noi mekhanike. 2. izd., dop. Kiev, Gosstroizdat
USSR, 1962. 334 p. (MIRA 15:12)

1. Kiyevskiy avtomobil'no-dorozhnyy institut (for Livshits).
2. Kiyevskiy inzhenerno-stroitel'nyy institut (for Semenov).
(Structures, Theory of--Problems, exercises, etc.)

MARKOVICH, Mikhail Parmenovich; LIVSHITS, Ya.D., prof., retsenzent;
SLAVIN, D.S., otv. red.; CHECHKOV, L.V., red. izd-va;
MAKSIMOVA, V.V., tekhn. red.

[Structural elements and construction work at the surface of mines]
Stroitel'nye konstruktsii i proizvodstvo stroitel'nykh rabot na po-
verkhnosti shakht. Moskva, Gosgortekhnizdat, 1962. 429 p.
(MIRA 15:12)

1. Zaveduyushchiy kafedroy ~~stroitel'~~nykh konstruktsiy i mostov
Kiyevskogo avtodorozhnogo instituta (for Livshits).
(Mine buildings)

VERIZHENKO, Yevgeniy Petrovich; LIVSHITS, Yakov Davidovich;
PASTUSHIKHIN, V.H., kand. tekhn.nauk, dots., retsenzent;
BOCHAROVA, Yu.F., red.; VORONINA, R.K., tekhn. red.

[Statics of structures] Statika sooruzhenii. 3. izd. Moskva,
Vysshaya shkola, 1962. 306 p. (MIRA 16:2)
(Strength of materials)

LIVSHITS, Ya.D.; ONISHCHENKO, M.M. (Kiyev)

Design of reinforced concrete slabs taking into account crack
formation and creep. Stroi. mekh. i rasch. soor. 4 no.6:6-11
'62. (MIRA 16:1)

(Concrete slabs)

LIVSHITS, Ia. D[Livshyts', IA. D.] (Kiyev); LISITSYN, B. M.[Lysytsyn,
B. M.] (Kiyev)

Determining flexures of prestressed reinforced-concrete slab.
Prykl. mekh. 9 no.1:99-102 '63. (MIRA 16:4)

1. Kiyevskiy avtodorozhnyy institut.

(Prestressed concrete construction—Testing)

LIVSHITS, YA. D. (Kiev)

"The criteria of applicability of the non-linear theory of plates".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

VERIZHENKO, Yevgeniy Petrovich; LIVSHITS, Yakov Davidovich;
KOGAN, Ye.G., преподаvatel', retsenzent; BOCHAROVA,
Yu.F., red.

[Statics of structures] Statika sooruzhenii. 4. izd. Moskva,
Vysshaya shkola, 1965. 323 p. (MIRA 19:1)

1. Moskovskiy arkhitekturno-stroitel'nyy tekhnikum (for
Kogan).

L 2605-66 EWT(m)/EWP(w) EM

ACCESSION NR: AP5022213

UR/0198/65/001/008/0017/0022

AUTHOR: Livshits, Ya. D. (Kiev)

24
22
13

TITLE: Nonlinearity criterion for plates

SOURCE: Prikladnaya mekhanika, v. 1, no. 8, 1965, 17-22

TOPIC TAGS: nonlinear theory, flat plate, stress analysis, elastic plate, approximation method, bending stress

ABSTRACT: The necessary criterion for nonlinear deflection of square and rectangular plates was investigated. The nonlinearity criterion is determined from the numerical value of plate flexibility $S = (P/E)(a/h)^4$. The present analysis is an improvement over previous studies inasmuch as it considers two boundary values for S (one based on the maximum fiber stress and another for deflection) as they apply to square or rectangular plates, either supported freely, hinged, or fixed at the ends. The analysis consists of constructing the graph

$$\frac{\sigma_{\max}}{\sigma_0} = f(S) \text{ и } \frac{f_{\max}}{f_0} = \Phi(S).$$

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ACCESSION NR: AP5022213

by numerically integrating the fourth-order plate deflection equations. These equations are written in finite difference form and solved by the square-mesh technique. The results of the calculations are tabulated for one square plate and one rectangle, $\frac{b}{a} = 1.5$, using three modes of support. Orig. art. has: 21 equations, 5 figures, and 1 table.

ASSOCIATION: Kiyevskiy avtomobil'no-dorozhnyy institut (Kiev Automobile-Highway Institute)

SUBMITTED: 30Nov64

ENCL: 00

SUB CODE: AS

NO REF SOV: 003

OTHER: 000

Card 2/2

LIVSHITS, Ya.K. [Livshyt', IA.K.]

Concerning the work of the Vinnitsa Scientific Pharmaceutical Society.
Farmatsev. zhur. 16 no.5:83-84 '61. (LIRA 17:10)

1. Kontrol'no-analiticheskaya laboratoriya, Vinnitsa.

MOLCHANOV, Viktor Grigor'yevich; LIVSHITS, Ya.L., red.; SAVCHENKO, Ye.V.,
tekhn.red.

[Ethiopia] Efiopiia. Moskva, Izd-vo "Znanie," 1960. 31 p.
(Vsesoiuznoe obshchestvo po rasprostraneniuiu politicheskikh i
nauchnykh znani. Ser.7, Mezhdunarodnaia, no.20). (MIRA 13:10)

(Ethiopia)

ROZHKOV, Aleksandr Filippovich; LIVSHITS, Ya, L., red.; ATROSHCHENKO,
L.Ye., tekhn.red.

[Workers' conditions and their struggle in Latin America]
Polozhenie i bor'ba trudiashechikhsia stran Latinskoj Ameriki.
Moskva, Izd-vo "Znanie," 1960. 39 p. (Vsesoiuznoe obshchestvo
po rasprostraneniuiu politicheskikh i nauchnykh znani. Ser.7,
Mezhdunarodnaia, no.21). (MIRA 13:12)
(Latin America--Labor and laboring classes)

MEN'SHIKOV, Stanislav Mikhaylovich, kand. ekon. nauk; LIVSHITS, Ya.L., red.;
NAZAROVA, A.S., tekhn. red.

[Economic condition of the U.S.A.] Ekonomicheskoe polozhenie SShA.
Moskva, Izd-vo "Znanie," 1961. (Vsesoiuznoe obshchestvo po raspro-
straneniю politicheskikh i nauchnykh znaniy. Ser.7, Mezhdunarodnaia,
no.13) (MIRA 14:7)

(United States—Economic conditions)

CONIONSKIY, Semen Aleksandrovich, prof., doktor ist. nauk; LIVSHITS,
Ya.L., red.; NAZAROVA, A.S., tekhn. red.

[Cuba strides forward] Kuba idet vpered. Moskva, Izd-vo
"Znanie," 1962. 31 p. (Novoe v zhizni, nauke, tekhnike,
Serii: Mezhdunarodnaia, no.1) (MIRA 15:3)
(Cuba—Economic conditions)
(Cuba—Foreign relations)

KNYAZEV, Ivan Aleksandrovich; LIVSHITS, Ya.L., red.; NAZAROVA, A.S.,
tekhn. red.

[The 15th anniversary of the independence of India] 15 let nezavisimosti Indii. Moskva, Izd-vo "Znanie," 1962. 31 p. (Novoe v zhizni, nauke, tekhnike. VII Seriya: Mezhdunarodnaya, no.11)
(MIRA 15:6)

(India--Economic conditions)

KAPRANOV, Ivan Andreyevich; LIVSHITS, Ya.L., red.; NAZAROVA, A.S.,
tekh. red.

[The two types of aid]Dva vida pomoshchi. Moskva, Izd-vo
"Znanie," 1962. 31 p. (Novoe v zhizni, nauke, tekhnike.
VII Seria: Mezhdunarodnaia, no.17) (MIRA 15:9)
(Economic assistance) (Underdeveloped areas)

KHODOV, Leonid Grigor'yevich; LIVSHITS, Ya.L., red.; ATROSHCHENKO,
L.Ye., tekhn. red.

[West Germany] Zapadnaia Germaniia. Moskva, Izd-vo "Znanie,"
1962. 47 p. (Novoe v zhizni, nauke, tekhnike. VII Seriia.
Mezhdunarodnaia, no.20) (MIRA 15:10)
(Germany, West—Economic conditions)
(Germany, West—Foreign relations)

LOBANOV, Viktor Ivanovich; LIVSHITS, Ya.L., red.; NAZAROVA, A.S.,
tekhm. red.

[Class struggle in capitalist countries]Klassovye bitvy v
stranakh kapitala. Moskva, Izd-vo "Znanie," 1962. 46 p.
(Novoe v zhizni, nauke, tekhnike. VII Seriya: Mezhdunarod-
naya, no.21) (MIRA 15:11)
(Labor and laboring classes)

IVANOVSKIY, Konstantin Aleksandrovich; LIVSHITS, Ya.L., red.;
RAKITIN, I.T., tekhn. red.

[Iran]Iran. Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe
v zhizni, nauke, tekhnike. VII Seriya: Mezhdunarodnaya, no.5)
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(Iran--Economic policy)

RUBINSKIY, Yutiy Il'ich; LIVSHITS. Ya.L., red.; NAZAROVA, A.S.,
tekhn. red.

[The "Common Market" and international relations] "Obshchii
rynok" i mezhdunarodnye otnosheniia. Moskva, Izd-vo "Znanie,"
1963. 38 p. (Novoe v zhizni, nauke, tekhnike. VII Seria:
Mezhdunarodnaia, no.11) (MIRA 16:6)
(European Economic Community)
(International economic relations)

ORNATSKIY, Igor' Aleksandrovich, kand.ekon. nauk; LIVSHITS, Ya.L.,
red.; RAKITIN, I.T., tekhn. red.

[Profitable to everybody; on international trade] Vygodno
vsem; o mezhdunarodnoi torgovle. Moskva, Izd-vo "Zhanie,"
1963. 47 p. (Novoe v zhizni, nauke, tekhnike. VII Seriya:
Mezhdunarodnaia , no.13) (MIRA 16:8)
(Russia--Commerce)

LEMIN, Iosif Mikhaylovich, doktor ist. nauk; LIVSHITS, Ya.L., red.;
RAKITIN, I.T., tekhn. red.

[Politics and strategy] Politika i strategiya. Moskva,
Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni, nauke,
tekhnike: VII Seriya: Mezhdunarodnaya, no.14)

(MIRA 16:8)

(United States--Strategy)
(North Atlantic Treaty Organization)

MIL'SHTEYN, Mikhail Abramovich, general-mayor; SLOBODENKO, Aleksey
Kirillovich, polkovnik; LIVSHITS, Ya.L., red.;
ATROSHCHENKO, L.Ye., tekhn. red.

[Military doctrine of the U.S.A.] O voennoi doktrine SShA.
Moskva, Izd-vo "Znanie," 1963. 31 p. (Novoe v zhizni, nauke,
tekhnike. VII Seriya: Mezhdunarodnaya, no.12) (MIRA 16:8)
(United States--Military policy)

VLADIMIROV, S.A.; YUDIN, Yu.A.; LIVSHITS, Ya.L., red.; RAKITIN, I.T.,
tekhn. red.

[U.S.A. military bases on foreign territory] Voennye bazy
SShA na chuzhikh territoriiakh. Moskva, Izd-vo "Znanie,"
1963. 43 p. (Novoe v zhizni, nauke, tekhnike. VII Seriya:
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BRUTENTS, Karen Nersesovich, kand. filos. nauk; LIVSHITS, Ya.L.,
red.; RAKITIN, I.T., tekhn. red.

[Colonialism without empires] Kolonializm bez imperii.
Moskva, Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni,
nauke, tekhnike. VII Seriya: Mezhdunarodnaia, no.22)
(MIRA 17:1)

YAKIMOVA, Tamara Aristarkhovna, kand. ist. nauk; LIVSHITS, Ya.L.,
red.; RAKITIN, I.T., tekhn. red.

[Noncapitalistic way of development] Nekapitalisticheski
skii put' razvitiia. Moskva, Izd-vo "Znanie," 1964. 29
(Novoe v zhizni, nauke, tekhnike. VII Seriya: Mezhdunarod-
naia, no.5) (MIRA 17:3)

BELYAYEV, Yuriy Nikolayevich, kand. ekon. nauk; LIVSHITS, Ya.L.,
red.; ATROSHCHENKO, L.Ye., tekhn. red.

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"Common Market."] SEV i "Obshchii rynok." Moskva, Izd-vo
"Znanie," 1964. 47 p. (Novoe v zhizni, nauke, tekhnike.
VII Seria: Mezhdunarodnaia, no.3) (MIRA 17:2)

LIVSHITS, Yu.L., inzh.; NOSKO, A.S., inzh.

The RZM-8, OF universal high-passability feed distributor.
Mashinostroenie no.5:99-101 S-O '65. (MIRA 13:0)

LIVSHITS, Ya.M., inzh.; OVCHINNIKOV, I.N., inzh.; PINSON, I.I., inzh.

Pneumoelectromagnetic loader of sheet steel. Sudostroenie 29
no.5:49-51 My '63. (MIRA 16:9)
(Sheet steel) (Materials handling)

ISUPOV, V.A., inzh.; LIVCHITS, Ya.N., inzh.; SHILYAYEV, N.P., inzh.

Tourniquet type tilting device for steel plates. Sudostroenie 31
no.4:43-45 Ap '65. (MIRA 18:8)

LIVSHITS, Yakov Naumovich; PINSON, Izrail' Isaakovich; KHARLAB,
A.Yu., inzh., retsenzent; OVCHINNIKOV, I.N., nauchn.
red.; MISHKEVICH, G.I., red.

[Means of mechanization in metal cutting by guillotine]
Sredstva mekhanizatsii pri rezke metalla na gil'otine.
Izd-vo "Sudostroenie," 1964. 48 p. (MIRA 17:4)

PANTELEYENKO, A.A.; LIVSHIT, Ye.A.

We are improving technological processes in processing telegrams.
Vest. svyazi 25 no.3:14-15 Mr '65. (MIRA 18:5)

1. Nachal'nik Kiyevskogo tsentral'nogo telegrafa (for Panteleyenko).
2. Nachal'nik ekspluatatsionno-tekhnicheskogo otdela Kiyevskogo tsentral'nogo telegrafa (for Livshit).

VYSOTSKIY, R.Ya.; LIVSHITS, Ye.G.

Method for determining lipoproteids by means of paper electrophoresis.
Lab. delo 5 no.3:31-34 My-Je '59. (MIRA 12:6)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. L.M. Gol'ber)
i kafedry pediatrii (zav. - prof. A.N. Ivanov) Rzhaskogo meditsinskogo
instituta.

(LIPOPROTEINS) (PAPER ELECTROPHORESIS)

LIVSHITS, Ye.G.

Cholesterol and its fractions in the blood serum of healthy and sick children. Vop. okh. mat. i det. 5 no. 5:41-46 S-0 '60.
(MIRA 13:10)

1. Iz kafedry pediatrii (zav. - prof. A.N. Ivanov) Rizhskogo meditsinskogo instituta (dir. - prof. V.A. Kal'berg).
(CHOLESTEROL)

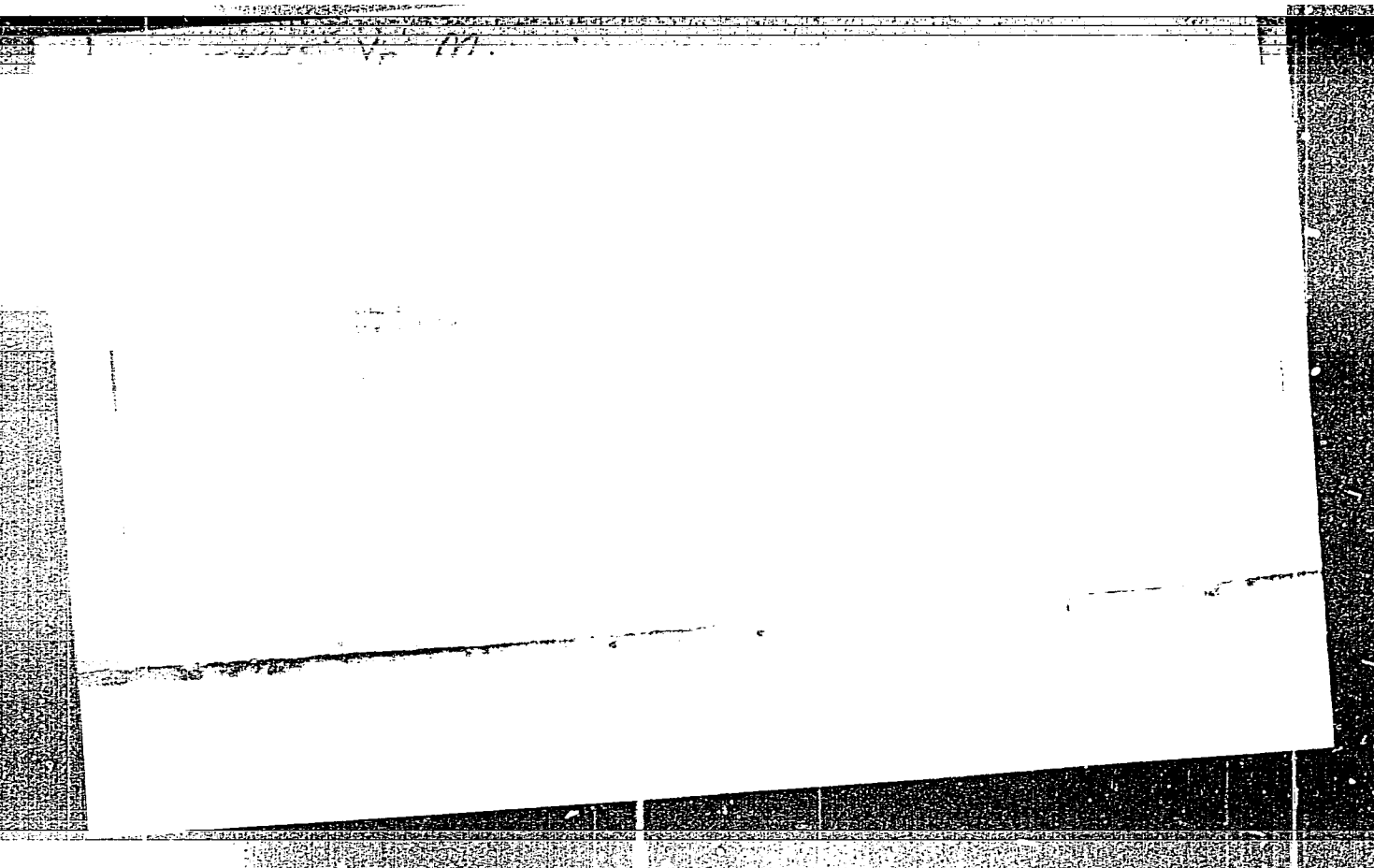
LIVSHITS, Ye.G.

Some indexes of lipid metabolism in rheumatic fever in children.
Pediatriia no.8:59-63 '61. (MIRA 14:9)

1. Iz kafedry pediatrii (zav. - prof. A.N. Ivanov) Rzhnskogo
meditsinskogo instituta (dir. - prof. V.A Kal'berg).
(RHEUMATIC FEVER) (LEPID METABOLISM)

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PA 66/49T63

LIVSHITS, YE. M.

USSR/Medicine - Peritonitis, Tubercular Mar/Apr 49
Streptomycin

"Two Cases of Tubercular Peritonitis Treated
With Streptomycin," Ye. M. Livshits, Third
Suburban Tuberculosis Hosp "Zakhar'ino", 1 1/2 pp

"Prob Tuber" No 2

Discusses observations on the usage of small
doses of streptomycin combined with surgical
treatment, with several case histories.

66/49T63

LIVSHITS, Ye.S.

Electric measuring instruments with direct numerical recording.
Iss. tekhn. no.5:60 S-O '55. (MIRA 9:1)
(Electric instruments)

GIGAURI, V.S.; LIVSHITS, Ye.V.; TREKOVA, N.A.

Effect of muscle relaxants on the cardiovascular system. Trudy
1-go MMI 33:41-47 '64. (MIRA 18:3)

LIVSHITS, Ye.Ya.

So-called familial schizophrenia. Zhur. nev. i psikh. 64
no.1:108-115 '64. (MIRA 17:5)

1. Institut psikhiatrii AMN SSSR, Moskva.

TANCHENKO, I.M.; SINGAYEVSKIY, OLN.; LIVSHITS, Yu.A. (Kiyev)

Production of fodder antibiotics in the alcohol industry. Anti-
biotiki 5 no.6:107-111 N-D '60. (MIRA 14:3)
(ANTIBIOTICS)

ROMANOV, B.M.; LIVSHITS, Yu.L.

Wedge-shaped chuck for the calibration of rods. Stan.1 instr. 24
no.11:31 N '53. (MLBA 6:12)
(Chucks)

LIVSHITS, YU. L.

USSR/ Engineering - Welding equipment

Card 1/1 : Pub. 128 - 20/38

Authors : Romanov, B. M., and Livshits, YU. L.

Title : Fixtures for welding of road building machinery

Periodical : Vest. mash. 9, 75-76, Sep 1954

Abstract : A general description is presented of fixtures for welding moldboards, flanges and hydraulic systems of road building machinery. Drawings.

Institution :

Submitted :

LIVSHITS, Yu.L.; NOSKO, A.S.

Suspension of tractor trailers. Trakt. i sel'khoz mash. no. 3:10

Mr '65.

(MIRA 18:5)

LIVSHITS, Yu.L.; NOSKO, A.S.

RM-3 feed distributor. Trakt. i sel'khoz mash. 31 no.1:33-34 Ja
'61. (MIRA 14:1)

1. Kiyevskoye Gosudarstvennoye spetsial'noye konstruktorskoye
byuro po sel'khoz mashinam.
(Cattle—Feeding and feeds)
(Farm equipment)

OMEL'CHENKO, O.O.; LIVSHITS, Yu.L. [Livshyts', IU.L.]; NOSKO, A.S.

The RU-8,0 feed distributor. Mekh. sil'. hosp. 14 no.9:25-
26 S '63. (MIRA 17:1)

1. Pratsivniki Kiivs'kogo DSKB po sil'gospmashinakh.

YATKOVETS, P.P.; LIVSHITS, Yu.N.

Osteomyelitis of the thoracic portion of the spine complicated by posterior mediastinitis with an esophageal fistula. Vest.khir.
77 no.3:108-109 Mr '56. (MLRA 9:7)

1. Iz Petrosavodskogo okruzhnogo gosptalya.

(SPINE, dis.

osteomyelitis, thoracic, with exophageal fistula & mediastinitis)

(OSTEOMYELITIS

spine, thoracic, with mediastinitis & esophageal fistula)

(FISTULA

esophagomediastinal in mediastinitis & osteomyelitis of spine)

(ESOPHAGUS, fistula

same)

(MEDIASTINUM, fistula

same)

LIVSHITS, Yu.S.

Manufacture of mirrors using films of alumimm. Stek.1 ker.
19 no.5:37-39 My '62. (MIRA 15:5)
(Mirrors)
(Aluminum coating)

FEDORENKO, N.P.; LIVSHITS, Yu.T.

Manufacture and use of poly (vinyl chloride) in capitalist countries.
Plast.massy no.6:68-73 '61. (MIRA 14:5)
(Ethylene) (Plastics)

FEDORENKO, N.P.; LIVSHITS, Yu.T.

Economic aspects of the production Of acetylene. Khim. i tekhn. topl.
i masel 6 no.11:46-51 N '61. (MIRA 14:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V.
Lomonosova.

(Acetylene)

LIVSHITS, Yu.T.; FEDORENKO, N.P.

Economic effectiveness in the use of poly(vinyl chloride) in
the cable industry. Plast.massy no.2:56-58 '62. (MIRA 15:2)
(Ethylene) (Cables)